



AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2018-03-21-01 Date: 26-03-18

Customer : Assistnt Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads, drains and other works Singapura Behind Govt school road and surroundings area in ward no.11 Kuvempunagara.

Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/122/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-03-18

Sample ID No : 2018-03-21-01 /05

Sample Type /Size : Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 22/03/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	Cover Slab-1	75.49	100.49	1.398	4475	86.8	19.4	18.0	22.5
2	Cover Slab-2	75.51	100.52	1.305	4477	82.6	18.4	17.2	21.4
3	Cover Slab-3	75.48	100.52	1.318	4474	85.7	19.2	17.8	22.3

Note:

The results pertain to the samples received and tested.

All information furnished by the Customer/Representative

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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Page 1/1

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Quality Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: T- 5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2018-03-21-01 **Date:** 24-03-18
Customer : Assistant Executive Engineer, Vidyanarayapura Sub Division, BBMP, Bangalore.
Address : Vidyanarayapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to roads, drains and other works Singapura Behind Govt school road and surroundings area in ward no.11 Kuvempunagara.
Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference : BBMP/EE/BTP/WO/122/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 21-03-18
Sample ID No : 2018-03-21-01 /01
Sample Type : ACC 53grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, DETERMINATION OF DENSITY , Clause 6

Date of test : 22-03-18

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.28	—
2	Fineness by Air permeability method (m ² /kg, Min)	298.6	225m ² /kg, Min
3	Density (gm/cc)	3.13	—
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

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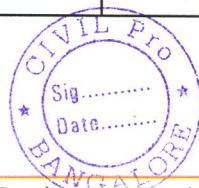
TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2018-03-21-01 **Date:** 24-03-18
Customer : Assistnt Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to roads, drains and other works Singapura Behind Govt school road and surroundings area in ward no.11 Kuvempunagara.
Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference : BBMP/EE/BTP/WO/122/2017-18
Source of Sample : Sample supplied by Agency
Sample condition : Satisfactory
Date of Receipt : 21-03-18
Sample ID No : 2018-03-21-01 /02(a)
Sample Type : 40mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 21-03-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:**Total weight taken** : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	275	275	1.8	98.2	90-100
3	20 mm	7515	7790	51.9	48.1	30-70
4	10 mm	4852	12642	84.3	15.7	10-35
5	4.75 mm	2089	14731	98.2	1.8	0-5
6	Pan	269	15000	100.0	0	---

Page 1/2

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Certificate No.: T- 5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2018-03-21-01 **Date:** 29-03-18
Customer : Assistnt Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to roads, drains and other works Singapura Behind Govt school road and surroundings area in ward no.11 Kuvempunagara.
Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference : BBMP/EE/BTP/WO/122/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 21-03-18
Sample ID No : 2018-03-21-01 /01
Sample Type : ACC 53grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test : 22-03-18
Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength			
Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm ²	Not less than 27 N/mm ²
2	7 Days	39.5N/mm ²	Not less than 37 N/mm ²

Note:

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2018-03-21-01

Date: 24-03-18

Sample ID No : 2018-03-21-01 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	9.7	
3	Specific Gravity	2.65	—
4	Bulk Density(Loose) (Kg/l)	1.44	—
5	Bulk Density(Compacted) (Kg/l)	1.49	—
6	Water Absorption(%)	0.22	—

Note:

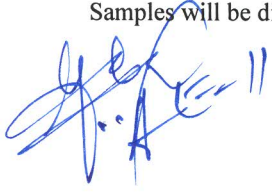
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Certificate No.: T- 5548

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2018-03-21-01 Date: 24-03-18
Customer : Assistant Executive Engineer, Vidyanarayapura Sub Division, BBMP, Bangalore.
Address : Vidyanarayapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to roads, drains and other works Singapura Behind Govt school road and surroundings area in ward no.11 Kuvempunagara.
Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer Reference : BBMP/EE/BTP/WO/122/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 21-03-18
Sample ID No : 2018-03-21-01 /02(b)
Sample Type/ Size : 20mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 21-03-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	219	219	4.4	95.6	90-100
3	10 mm	2298	2517	50.3	49.7	25-55
4	4.75 mm	2385	4902	98.0	2.0	0-10
5	Pan	98	5000	100	0	-

Page 1/2



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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2018-03-21-01 Date: 24-03-18
Sample ID No : 2018-03-21-01 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.7	
3	Specific Gravity	2.62	—
4	Bulk Density(Loose) (Kg/l)	1.46	—
5	Bulk Density(Compacted) (Kg/l)	1.51	—
6	Water Absorption(%)	0.18	—
7	Aggregate crushing Value(%)	24.2	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.9	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Certificate No.: T- 5548

Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2018-03-21-01 **Date:** 24-03-18

Customer : Assistnt Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads, drains and other works Singapura Behind Govt school road and surroundings area in ward no.11 Kuvempunagara.

Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/122/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-03-18

Sample ID No : 2018-03-21-01 /03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

Date of test : 21-03-18

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	22	22	2.2	97.8	90-100	90-100	90-100	95-100
3	2.36 mm	175	197	19.7	80.3	60-95	75-100	85-100	95-100
4	1.18 mm	215	412	41.2	58.8	30-70	55-90	75-100	90-100
5	600 micron	203	615	61.5	38.5	15-34	35-59	60-79	80-100
6	300 micron	198	813	81.3	18.7	5-20	8-30	12-40	15-50
7	150 micron	142	955	95.5	4.5	0-10	0-10	0-10	0-15
8	Pan	45	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

Page 1/2



Signature

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2018-03-21-01

Date: 24-03-18

Sample ID No : 2018-03-21-01 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.78	—
2	Specific Gravity	2.53	—
3	Material finer than 75 micron(%)	3.8	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:

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All information furnished by Customer/Representative

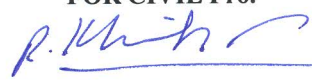
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Page 2/2

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Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID : CP-2018-03-21-01 Date: 24-03-18

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads, drains and other works Singapura Behind Govt school road and surroundings area in ward no.11 Kuvempunagara.

Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/122/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-03-18

Sample ID No : 2018-03-21-01 /04

Sample Type/Size : Solid concrete blocks of size (400X200X200)mm

Reference to BIS codes : IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification
Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and 10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)

Date of test : 21-03-18

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10 ⁶	Avg.Block Density in (Kg/cum)	As per IS 2185 (Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm ³)	Kg	Kg/m ³	Kg/m ³	
1	402	202	202	16403	32.850	2002.7	1989.3	Not less than 1800Kg/m ³
2	403	203	202	16525	32.490	1966.1		
3	401	203	201	16362	32.710	1999.1		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185 (Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.750	32.490	3.88	3.74	Shall not be more than 10% by mass
2	33.590	32.390	3.70		
3	33.460	32.290	3.62		

Page 1/3

*R. Khanna*



Lab ID : CP-2018-03-21-01

Date: 24-03-18

Sample ID No : 2018-03-21-01

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	402	202	203	Length : $\pm 5\text{mm}$ Breadth : $\pm 3\text{mm}$ Height : $\pm 3\text{mm}$
2	403	203	201	
3	401	201	203	
4	404	203	201	
5	402	201	203	
6	403	202	201	
7	402	203	203	
8	401	201	202	
9	403	203	201	
10	405	200	203	
11	401	199	201	
12	402	203	203	
13	402	201	201	
14	403	202	203	
15	401	201	202	
16	400	203	201	
17	402	201	203	
18	403	200	203	
19	402	198	201	
20	401	202	202	
Average of 20	402	201	202	

Page 2/3

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: T- 5548

Lab ID : CP-2018-03-21-01

Date: 24-03-18

Sample ID No : 2018-03-21-01

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm ²)	(KN)	N/mm ²	(N/mm ²)
1	402	202	81204	348.5	4.3	4.2
2	403	203	81809	329.4	4.0	
3	401	201	80601	308.4	3.8	
4	404	203	82012	342.9	4.2	
5	402	201	80802	362.1	4.5	
6	403	202	81406	318.5	3.9	
7	402	203	81606	359.4	4.4	
8	401	201	80601	349.7	4.3	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm ²	4.00 N/mm ²
C (4.0)	4.00 N/mm ²	3.20 N/mm ²

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Page 3/3

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: T- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-03-28-01 **Date:** 02/04/2018
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to roads, drains and other works Singapura Behind Govt school road and surroundings area in ward no.11 Kuvempunagara.
Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference : BBMP/EE/BTP/WO/122/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 28-03-18
Sample ID No : 2018-03-28-01 /01
Customer ID : PCC
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M15 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 02/04/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	PCC	M15	26/03/2018	02/04/2018	149.38 X 150.47 X 150.69	22477	8.149	272.0	12.1	12.5
2	PCC	M15	26/03/2018	02/04/2018	150.49 X 150.67 X 150.74	22674	8.298	292.5	12.9	
3	PCC	M15	26/03/2018	02/04/2018	151.49 X 150.11 X 149.85	22740	8.214	282.0	12.4	

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Authorized Signatory
Quality Manager



Page 1/1

****End of Report****

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